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(54) HOLLOW FIBER MEMBRANE MODULE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a module in which a high filtering function can be maintained for a long time and the filtering function can be easily recovered by arranging and fixing plural hollow fiber membrane woven fabrics parallel to each other to obtain an element, housing the element in a casing and then providing the case with an aeration header.

SOLUTION: The end of a hollow fiber membrane woven fabric in which hollow fiber membranes are arranged as warps or wefts is fixed to a fixing member 2 while the end of the hollow fiber membrane is maintained as an opened state, and plural numbers of hollow fiber membrane woven fabrics are arranged parallel to each other to obtain the obtd. element. The obtd. element is housed in a cylindrical casing 3 which is equipped with an aeration header 9 to supply air. A raw water which is highly contaminated and supplied from a raw water supply port 4 is filtered by the hollow fiber membrane in the hollow fiber membrane woven fabric 1. During this process, when air from an air supply port 8 is released through an aeration header 9, the air rises in a bubble state among the hollow fiber membrane fabrics 1 to clean the membrane surfaces. Thereby, a high filtering function can be maintained and recovered.

